

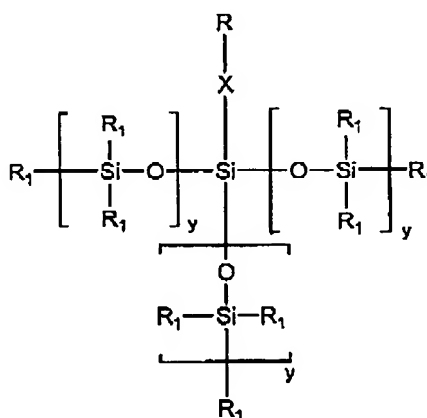
Serial No. 10/003,635

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application

LISTING OF THE CLAIMS

Claim 1 (withdrawn): Siloxysilane monomers comprising:



wherein R is a polymerizable group; X is selected from the group consisting of C₁₋₁₀ alkyl, C₁₋₁₀ alkyloxy, C₆₋₃₆ aryl and C₆₋₃₆ aryloxy; and the R₁ groups may be the same or different selected from the group consisting of C₁₋₁₀ alkyl, C₁₋₂₀ cycloalkyl, C₆₋₃₆ aryl, C₆₋₃₆ aryl ether, C₆₋₃₆ heterocycle, C₆₋₃₆ heterocycle with one or more substituents, C₁₋₁₀ alkyl ether and C₆₋₃₆ aryloxy; and y may be the same or different non-negative integer less than 101.

Claim 2 (withdrawn): The monomer of claim 1 wherein R is selected from the group consisting of methacrylate, acrylate, acrylamido, methacrylamido, styryl, itaconate, fumaroyl, vinyl, vinyloxy, vinyl carbamate and vinyl carbonate.

Claim 3 (withdrawn): The monomer of claim 1 wherein R is methacrylate or acrylate.

Serial No. 10/003,635

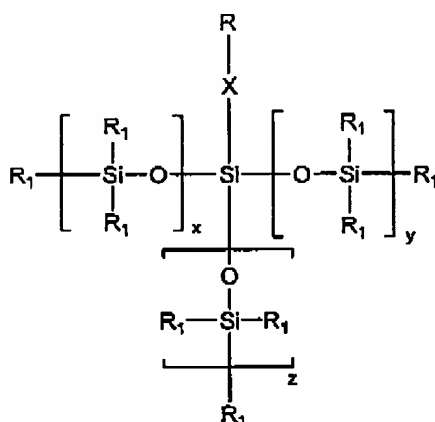
Claim 4 (withdrawn): A method of making the siloxysilane monomer of claim 1 comprising:

producing, through co-hydrolysis of a chlorosilane with a chlorophenylsilane and an acid scavenger, a siloxysilane monomer.

Claim 5 (withdrawn): The method of claim 4 wherein said chlorosilane is 3-methacryloyloxypropylchlorosilane.

Claim 6 (withdrawn): The method of claim 4 wherein said acid scavenger is N,N-dimethylaminopyridine.

Claim 7 (previously presented): A polymeric composition produced through the polymerization of one or more siloxysilane monomers comprising:



wherein R is a polymerizable group; X is selected from the group consisting of C₁₋₁₀ alkylene, C₁₋₁₀ alkyleneoxy, C₆₋₃₆ arylene and C₆₋₃₆ aryleneoxy; the R₁ groups are the same or different and are selected from the group consisting of C₆₋₃₆ aryl ether and C₁₋₁₀ alkyl ether; x, y, and z are the same or different non-negative integer less than 101; and said polymeric composition having a modulus approximately 4333 g/mm² or less.

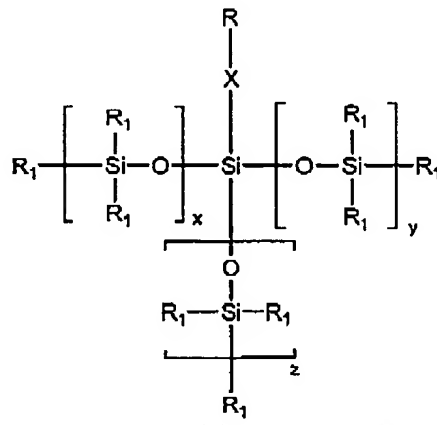
Claim 8 (previously presented): A polymeric composition produced through a copolymerization of one or more monomers of claim 7 with one or more aromatic or non-aromatic non-siloxy-based monomers.

Serial No. 10/003,635

Claim 9 (previously presented): A polymeric composition produced through a copolymerization of one or more monomers of claim 7 with one or more hydrophobic monomers.

Claim 10 (previously presented): A polymeric composition produced through a copolymerization of one or more monomers of claim 7 with one or more hydrophilic monomers.

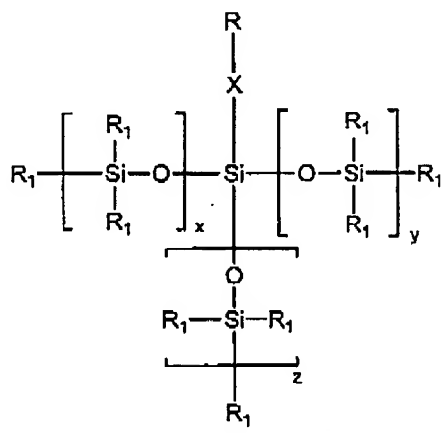
Claim 11 (currently amended): ~~A~~ The polymeric composition of claim 8 produced through a copolymerization of one or more siloxysilane monomers with one or more aromatic or non-aromatic non-siloxy-based monomers, said one or more siloxysilane comprising:



wherein R is a polymerizable group; X is selected from the group consisting of C₁₋₁₀ alkylene, C₁₋₁₀ alkyleneoxy, C₆₋₃₆ arylene and C₆₋₃₆ aryleneoxy; the R₁ groups are the same or different and are selected from the group consisting of C₆₋₃₆ aryl ether and C₁₋₁₀ alkyl ether; x, y, and z are the same or different non-negative integer less than 101; and said polymeric composition having a modulus approximately 4333 g/mm² or less; wherein said one or more aromatic or non-aromatic non-siloxy-based monomers are selected from the group consisting of 2-phenyloxyethyl methacrylate, 3,3-diphenylpropyl methacrylate, glyceryl methacrylate, 3-phenylpropyl acrylate, N,N-dimethylacrylamide, methyl methacrylate, 2-(1-naphthylethyl methacrylate) and 2-(2-naphthylethyl methacrylate).

Serial No. 10/003,635

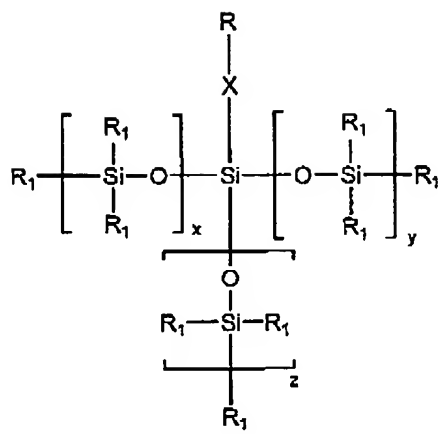
Claim 12 (currently amended): ~~A~~ The polymeric composition of ~~claim 9~~ produced through a copolymerization of one or more siloxysilane monomers with one or more hydrophobic monomers, said one or more siloxysilane comprising:



wherein R is a polymerizable group; X is selected from the group consisting of C₁₋₁₀ alkylene, C₁₋₁₀ alkyleneoxy, C₆₋₃₆ arylene and C₆₋₃₆ aryleneoxy; the R₁ groups are the same or different and are selected from the group consisting of C₆₋₃₆ aryl ether and C₁₋₁₀ alkyl ether; x, y, and z are the same or different non-negative integer less than 101; and said polymeric composition having a modulus approximately 4333 g/mm² or less; wherein said one or more hydrophobic monomers are selected from the group consisting of 2-ethylhexyl methacrylate, 3-methacryloyloxypropyldiphenylmethoxysilane and 2-phenyloxyethyl methacrylate.

Claim 13 (currently amended): ~~A~~ The polymeric composition of ~~claim 10~~ produced through a copolymerization of one or more siloxysilane monomers with one or more hydrophilic monomers, said one or more siloxysilane comprising:

Serial No. 10/003,635



wherein R is a polymerizable group; X is selected from the group consisting of C₁₋₁₀ alkylene, C₁₋₁₀ alkyleneoxy, C₆₋₃₆ arylene and C₆₋₃₆ aryleneoxy; the R₁ groups are the same or different and are selected from the group consisting of C₆₋₃₆ aryl ether and C₁₋₁₀ alkyl ether; x, y, and z are the same or different non-negative integer less than 101; and said polymeric composition having a modulus approximately 4333 g/mm² or less; wherein said one or more hydrophilic monomers are selected from the group consisting of N,N-dimethylacrylamide and N-methylacrylamide.

Claim 14 (withdrawn): A method of producing ophthalmic devices from the polymeric compositions of claim 7, 8, 9 or 10 comprising:

casting one or more polymeric compositions in the form of a rod;

lathing or machining said rod into disks; and

lathing or machining said disks into ophthalmic devices.

Claim 15 (withdrawn): A method of producing ophthalmic devices from the polymeric compositions of claim 7, 8, 9 or 10 comprising:

pouring one or more polymeric compositions into a mold prior to curing;

curing said one or more polymeric compositions; and

Serial No. 10/003,635

removing said one or more polymeric compositions from said mold following curing thereof.

Claim 16 (withdrawn): A method of using the ophthalmic devices of claim 14 or 15 comprising:

making an incision in the cornea of an eye; and

implanting said ophthalmic device within the eye.

Claim 17 (withdrawn): The method of claim 14, 15 or 16 wherein said devices are intraocular lenses or corneal inlays.

Claim 18 (withdrawn): The method of claim 14 or 15 wherein said devices are contact lenses.

Claim 19 (previously presented): A polymeric composition produced through the copolymerization of one or more monomers of claim 7 with one or more aromatic or non-aromatic non-siloxy-based monomers and one or more strengthening agents.

Claim 20 (previously presented): A polymeric composition produced through the copolymerization of one or more monomers of claim 7 with one or more hydrophobic monomers and one or more strengthening agents.

Claim 21 (previously presented): A polymeric composition produced through the copolymerization of one or more monomers of claim 7 with one or more hydrophilic monomers and one or more strengthening agents.

Claim 22 (previously presented): A polymeric composition produced through the polymerization of one or more monomers of claim 7 with one or more strengthening agents.

Claim 23 (previously presented): A polymeric composition produced through the copolymerization of one or more monomers of claim 7 with one or more aromatic or non-aromatic non-siloxy-based monomers and one or more crosslinking agents.

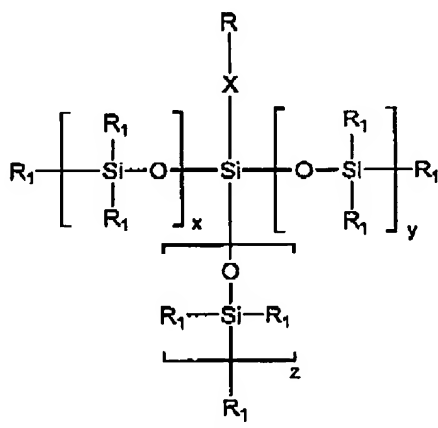
Serial No. 10/003,635

Claim 24 (previously presented): A polymeric composition produced through the copolymerization of one or more monomers of claim 7 with one or more hydrophobic monomers and one or more crosslinking agents.

Claim 25 (previously presented): A polymeric composition produced through the copolymerization of one or more monomers of claim 7 with one or more hydrophilic monomers and one or more crosslinking agents.

Claim 26 (previously presented): A polymeric composition produced through the polymerization of one or more monomers of claim 7 with one or more crosslinking agents.

Claim 27 (previously presented): ~~A~~ The polymeric composition of ~~claim 10, 20, 21 or 22~~ produced through a copolymerization of one or more siloxysilane monomers with one or more additional monomers and one or more strengthening agents; said one or more additional monomers being selected from the group consisting of aromatic or non-aromatic non-siloxy-based monomers, hydrophobic monomers, and hydrophilic monomers; said one or more siloxysilane monomers comprising:

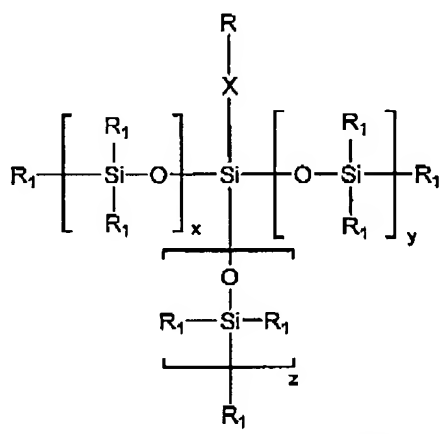


wherein R is a polymerizable group; X is selected from the group consisting of C₁₋₁₀ alkylene, C₁₋₁₀ alkyleneoxy, C₆₋₃₆ arylene and C₆₋₃₆ aryleneoxy; the R₁ groups are the same or different and are selected from the group consisting of C₆₋₃₆ aryl ether and C₁₋₁₀ alkyl ether; x, y, and z are the same or different non-negative integer less than 101; and said polymeric composition having a modulus approximately 4333 g/mm² or less; wherein said one or more

Serial No. 10/003,635

strengthening agents are selected from the group consisting of cycloalkyl acrylates and cycloalkyl methacrylates.

Claim 28 (original): A The polymeric composition of claim 23, 24, 25 or 26 produced through a copolymerization of one or more siloxysilane monomers with one or more additional monomers and one or more cross crosslinking agents; said one or more additional monomers being selected from the group consisting of aromatic or non-aromatic non-siloxy-based monomers, hydrophobic monomers, and hydrophilic monomers; said one or more siloxysilane monomers comprising:



wherein R is a polymerizable group; X is selected from the group consisting of C₁₋₁₀ alkylene, C₁₋₁₀ alkyleneoxy, C₆₋₃₆ arylene and C₆₋₃₆ aryleneoxy; the R₁ groups are the same or different and are selected from the group consisting of C₆₋₃₆ aryl ether and C₁₋₁₀ alkyl ether; x, y, and z are the same or different non-negative integer less than 101; and said polymeric composition having a modulus approximately 4333 g/mm² or less; wherein said one or more crosslinking agents are selected from the group consisting of diacrylates and dimethacrylates of triethylene glycol, butylene glycol, neopentyl glycol, ethylene glycol, hexane-1,6-diol and thio-diethylene glycol, trimethylolpropane triacrylate, N,N'-dihydroxyethylene bisacrylamide, diallyl phthalate, triallyl cyanurate, divinylbenzene; ethylene glycol divinyl ether, N,N'-methylene-bis-(meth)acrylamide, sulfonated divinylbenzene and divinylsulfone.